

WDN/SAS:gtz 4239-55414 E-230-00/0 07/19/01

**ASSIGNMENT**

WHEREAS, We, Giovanna Tosato, of 9007 Burning Tree Road, Bethesda, Maryland, 20817, a citizen of the United States of America, and Sandra E. Pike, of 5801 Edson Lane #102, North Bethesda, Maryland, 20852, a citizen of the United States of America, employees of the Department of Health and Human Services at the time the invention was made, are co-inventors of USE OF CALRETICULIN AND CALRETICULIN FRAGMENTS TO INHIBIT ENDOTHELIAL CELL GROWTH AND ANGIOGENESIS, AND SUPPRESS TUMOR GROWTH for which the following patent applications have been filed:

- ☒ U.S. Provisional Application No. 60/103,438, filed October 6, 1998;
- ☒ PCT Application No. US99/23240, filed October 5, 1999;
- ☒ U.S. Patent Application No. 09/807,148, filed April 5, 2001; and

We are also co-inventors of VASOSTATIN AS MARROW PROTECTANT, for which the following patent application has been filed:

- ☒ U.S. Patent Application No. 09/828,000, filed April 6, 2001; and

All four (4) of these patent applications are collectively referred to herein as "the patent applications" or "applications for Letters Patent"; and

WHEREAS, the conditions under which said invention was made are such as to entitle the Government of the United States of America under Paragraph 1(a) of Executive order 10096, to the entire right, title, and interest herein, both domestic and foreign; and

WHEREAS, the Government of the United States of America is desirous of acquiring all domestic and foreign right, title, and interest in the aforesaid invention described in the aforesaid applications for Letters Patent of the United States of America; and

NOW, THEREFORE, to all whom it may concern, be it known for and in consideration of the premises and other valuable considerations, We the undersigned, have sold, assigned, and transferred and by these presents do sell, assign, and transfer unto The Government of the United States of America as represented by the Secretary of the Department of Health and Human Services (hereinafter THE GOVERNMENT), and their successors, the full and exclusive right, title, and interest in the invention, patent applications and patent rights throughout the United States of America, its territories and dependencies, and within each and every foreign country in which THE GOVERNMENT elects to file the invention described in the aforesaid applications for Letters Patent of the United States of America, and all Letters Patents and Registrations which may be granted on the same in the United States of America and all countries throughout the world, and to claim the priority from the applications as provided by United States Law and the Paris Convention, or of any divisional, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

AND, We hereby authorize and request the Commissioner for Patents to issue said Letters Patent to THE GOVERNMENT as an assignee of the entire right, title, and interest in and to the same throughout the United States of America, its territories and dependencies, and within each and every foreign country in which THE GOVERNMENT elects to file, for the sole use for the full term or terms for which said Letters Patent and Registrations may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof which may be granted as fully and entirely as the same would have been held by us, had this assignment not been made;

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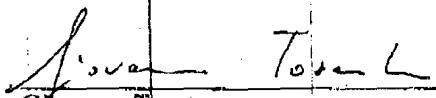
AND, We hereby warrant that there are no outstanding assignments, grants, liens, encumbrances, or agreements either written, oral, or implied with respect to the aforesaid applications for Letters Patent which will impair, diminish, limit, or abridge the interest herein conveyed at the time of the execution of this instrument by us;

AND, We hereby agree to execute any and all applications for Letters Patent in the United States of America and foreign countries, and to furnish and deliver to the Secretary, Department of Health and Human Services, upon request, all data and documents, and to execute any papers which may be necessary for the prosecution of any application or applications of Letters Patent or for THE GOVERNMENT to exercise its rights granted hereunder, including communicating to THE GOVERNMENT, its representatives or agents, any facts relating to said invention, including evidence for interference purposes, or for other proceedings, whenever requested, to testify in any interference or other proceedings, whenever requested, and to execute and deliver on request all lawful papers required to make any of the foregoing provisions effective, and likewise make these provisions binding upon our heirs, legal representatives, administrators and assigns, and We shall assist THE GOVERNMENT in every way as may be requested in protecting said invention, provided that any expense of extending such assistance shall be paid by THE GOVERNMENT.

We hereby grant the law firm of Klarquist Sparkman Campbell Leigh & Winston, LLP, the power to insert on this Assignment any further information which may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

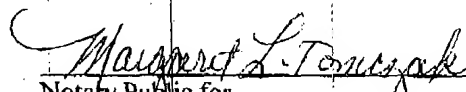
IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: 7/25/01

  
Giovanna Tosato

STATE OF Maryland )  
COUNTY OF Montgomery ) ss.

This 25 day of July, 2001, before me personally came the above-named Giovanna Tosato, who executed the foregoing Assignment in my presence, and who acknowledged to me that she executed the same of her own free will for the purposes set forth therein.

  
Notary Public for  
My commission expires:

MY COMMISSION EXPIRES  
MARCH 1, 2003  
MARGARET L. TOMCZAK  
NOTARY PUBLIC

[SEAL]

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Dated:

7/26/01Sandra E. Pike  
Sandra E. Pike

STATE OF

Maryland )

) ss.

COUNTY OF

Montgomery )

This 26 day of July, 2001, before me personally came the above-named Sandra E. Pike, who executed the foregoing Assignment in my presence, and who acknowledged to me that she executed the same of her own free will for the purposes set forth therein.

Margaret L. Tomczak  
Notary Public for

My commission expires:

MY COMMISSION EXPIRES  
MARCH 1, 2003  
MARGARET L. TOMCZAK  
NOTARY PUBLIC

[SEAL]

WDN/SAS:gte 4239-55414 E-230-00/0 07/26/01

**ASSIGNMENT**

WHEREAS, I, Lei Yao, of 13723 Valley Oak Circle, Rockville, Maryland, 20850, a citizen of the United States of America, an employee of the Department of Health and Human Services at the time the invention was made, am a co-inventor of USE OF CALRETICULIN AND CALRETICULIN FRAGMENTS TO INHIBIT ENDOTHELIAL CELL GROWTH AND ANGIOGENESIS, AND SUPPRESS TUMOR GROWTH for which the following patent applications have been filed:

- ☒ PCT Application No. US99/23240, filed October 5, 1999;
- ☒ U.S. Patent Application No. 09/807,148, filed April 5, 2001; and

I am also a co-inventor of VASOSTATIN AS MARROW PROTECTANT, for which the following patent application has been filed:

- ☒ U.S. Patent Application No. 09/828,000, filed April 6, 2001; and

All three (3) of these patent applications are collectively referred to herein as "the patent applications" or "applications for Letters Patent"; and

WHEREAS, the conditions under which said invention was made are such as to entitle the Government of the United States of America under Paragraph 1(a) of Executive order 10096, to the entire right, title, and interest herein, both domestic and foreign; and

WHEREAS, the Government of the United States of America is desirous of acquiring all domestic and foreign right, title, and interest in the aforesaid invention described in the aforesaid applications for Letters Patent of the United States of America; and

NOW, THEREFORE, to all whom it may concern, be it known for and in consideration of the premises and other valuable considerations, I the undersigned, have sold, assigned, and transferred and by these presents do sell, assign, and transfer unto The Government of the United States of America as represented by the Secretary of the Department of Health and Human Services (hereinafter THE GOVERNMENT), and their successors, the full and exclusive right, title, and interest in the invention, patent applications and patent rights throughout the United States of America, its territories and dependencies, and within each and every foreign country in which THE GOVERNMENT elects to file the invention described in the aforesaid applications for Letters Patent of the United States of America, and all Letters Patents and Registrations which may be granted on the same in the United States of America and all countries throughout the world, and to claim the priority from the applications as provided by United States Law and the Paris Convention, or of any divisional, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

AND, I hereby authorize and request the Commissioner for Patents to issue said Letters Patent to THE GOVERNMENT as an assignee of the entire right, title, and interest in and to the same throughout the United States of America, its territories and dependencies, and within each and every foreign country in which THE GOVERNMENT elects to file, for the sole use for the full term or terms for which said Letters Patent and Registrations may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof which may be granted as fully and entirely as the same would have been held by me, had this assignment not been made;

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AND, I hereby warrant that there are no outstanding assignments, grants, liens, encumbrances, or agreements either written, oral, or implied with respect to the aforesaid applications for Letters Patent which will impair, diminish, limit, or abridge the interest herein conveyed at the time of the execution of this instrument by me;

AND, I hereby agree to execute any and all applications for Letters Patent in the United States of America and foreign countries, and to furnish and deliver to the Secretary, Department of Health and Human Services, upon request, all data and documents, and to execute any papers which may be necessary for the prosecution of any application or applications of Letters Patent or for THE GOVERNMENT to exercise its rights granted hereunder, including communicating to THE GOVERNMENT, its representatives or agents, any facts relating to said invention, including evidence for interference purposes, or for other proceedings, whenever requested, to testify in any interference or other proceedings, whenever requested, and to execute and deliver on request all lawful papers required to make any of the foregoing provisions effective, and likewise make these provisions binding upon our heirs, legal representatives, administrators and assigns, and I shall assist THE GOVERNMENT in every way as may be requested in protecting said invention, provided that any expense of extending such assistance shall be paid by THE GOVERNMENT.

I hereby grant the law firm of Klarquist Sparkman Campbell Leigh & Whinston, LLP, the power to insert on this Assignment any further information which may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: 8-7-2001

Lei Yao  
Lei Yao

STATE OF Maryland )  
COUNTY OF Montgomery ) ss.

This 14 day of August, 2001, before me personally came the above-named Lei Yao, who executed the foregoing Assignment in my presence, and who acknowledged to me that she executed the same of her own free will for the purposes set forth therein.

Margaret L. Tomczak  
Notary Public for Montgomery County  
My commission expires:

[SEAL]

MY COMMISSION EXPIRES  
MARCH 1, 2003  
MARGARET L. TOMCZAK  
NOTARY PUBLIC



## DEPARTMENT OF HEALTH &amp; HUMAN SERVICES

Public Health Service  
National Institutes of HealthOffice of Technology Transfer  
National Institutes of Health  
6011 Executive Boulevard  
Rockville, MD 20852

March 17, 2004

TO: NIH Patent Prosecution Contract Law Firms

FROM: Director, Office of Technology Transfer

SUBJECT: **Delegation of Authority for Certain Patent Administration and Prosecution Activities**

Effective this date and acting under the authority set forth in DHHS Secretary Louis W. Sullivan's May 21, 1991 memorandum appearing in the Friday, June 7, 1991 Federal Register Notices at Volume 56, Number 110, pages 26418-26419 (copy attached), I authorize:

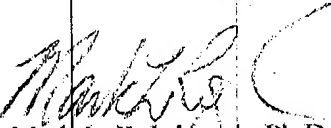
Astor, Marlene (Reg. No. 46,005);  
Bahar, Mojdeh (Reg. No. 54,798);  
Berkley, Dale (Reg. No. 42,319);  
Clouse, Thomas (Reg. No. 45,629);  
Ferguson, Steven (Reg. No. 38,448);  
Finley, Stephen (Reg. No. 36,357);  
Haight, James C. (Reg. No. 25,588);  
Kim, John Peter (Reg. No. 38,514);  
Kindra, Jasbir (Reg. No. 41,115);  
Pontzer, Norbert (Reg. No. 40,777);  
Rodriguez, Richard U. (Reg. No. 45,980);  
Rucker, Susan S. (Reg. No. 35,762);  
Sadowski, David R. (Reg. No. 32,808);  
Schmickel, David (Reg. No. 40,270);  
Shmilovich, Michael A. (Reg. No. 45,634); and,  
Spiegel, Jack (Reg. No. 34,477)

to exercise full authority in United States or International patents or patent applications in which the Government of the United States of America, as represented by the Secretary, Department of Health and Human Services, is an applicant or has an ownership interest with respect to the following:

- ☐ Signing original, associate, or substitute powers of attorney before the U.S. or International Authorities;
- ☐ Signing Request Forms, Demand Forms, and other documents filed in applications before the International Authorities;
- ☐ Signing assignee's consent to changes in inventorship;

Page 2: Delegation of Authority for Certain Patent Administration and Prosecution Activities

- ☐ Signing papers required from an assignee in connection with an application for Re-issue and/or Re-examination of a patent;
- ☐ Signing terminal disclaimers including, but not limited to, terminal disclaimers to obviate obviousness-type double patenting rejections; and,
- ☐ Signing all documents before the USPTO, either as the U.S. National Office or as a designated Receiving Office under the Patent Cooperation Treaty that can be signed by an assignee in patent matters.

  
Mark L. Rohrbaugh, Ph.D., J.D.  
(Reg. No. 43,055)

Attachment

cc:  
OTT Staff